Phase I
The emergency whole hody temperature control phase (vein)

Phase 2
The brain-selective
temperature control
phase
(arteny)

Phase 3
The maintained temperature control phase
(blood circulation

Fig. 1a

Throducing inturion

100 catheter into selected blood vessel (vein or aftern)

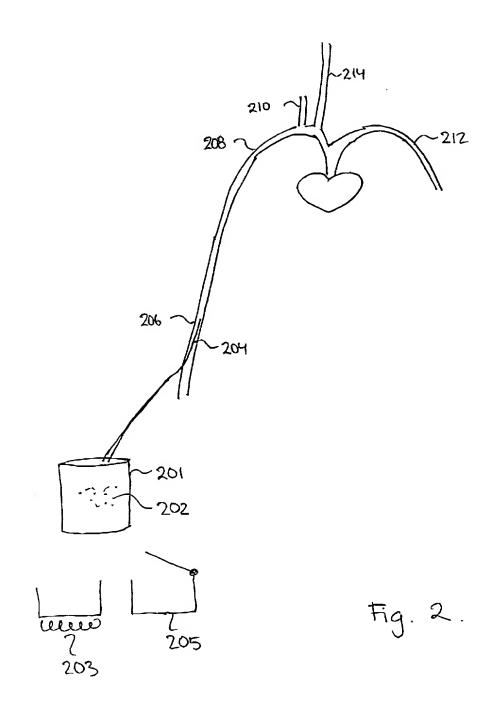
102 Pondioning tip of inturion catheter in blood vessel:

104 controlling or regulating

104 controlling or regulation temperature of infusion solution

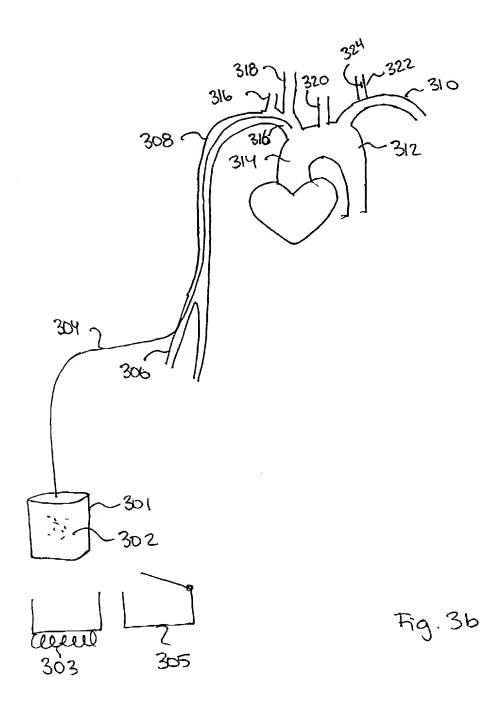
106 inturing temperature of controlled inturion solution

108 possibly, inhaling a gas having brain protective properties Fig 16



200 possibly inhaducing guide wire catheter into an artery supplying blood to the brain an arterial infusion introducing 204 catheter into the artery pressure applying 206 temperature sensor introducing a 208 into a blood vessel diraining blood from the brain 210 infusing a temperature controlled solution through the arterial infusion cathetes checking the temperature by 212 meens of the temperature sensor 214 adjusting the infusion speed

Fig. 3a



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300 Introducing, into a central vein or artery, an vextraction catheter

connecting the vextraction contraction the vextraction of the vextraction of and to a perturion pump and to a heat exchanger in an extracorporeal blood circuit

314 connecting the extracorporeal circuit to the proximal end of an arterial infurion cathefer inserted in a central artery

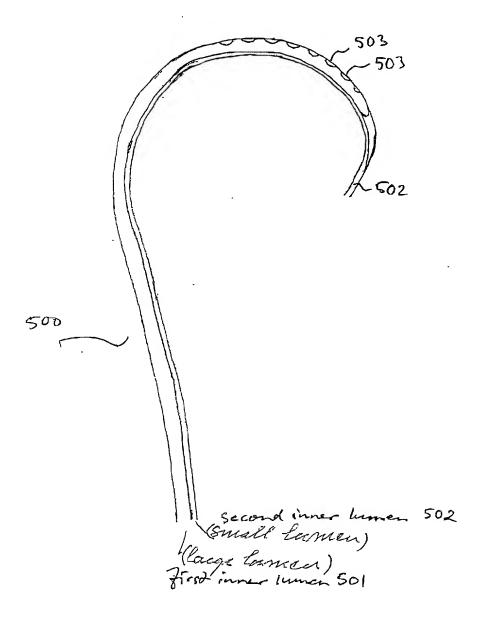
318 Regulating the blood on the extra-corporeal circuit to a predetermined temperature

1314/318 Introducing temperature regulated blood into the arterial infusion catheter

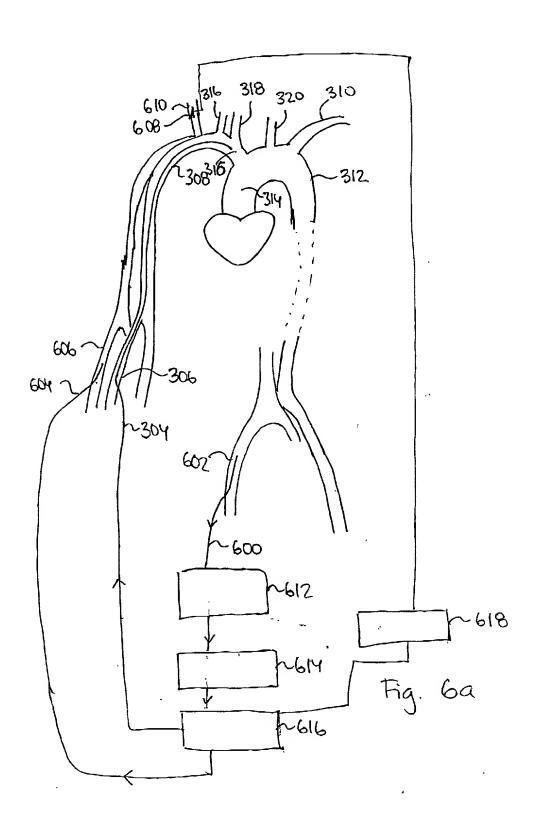
318 circulation blood through the extra-corporeal circuit to enable the brain to be tempered to a predetermined temperature

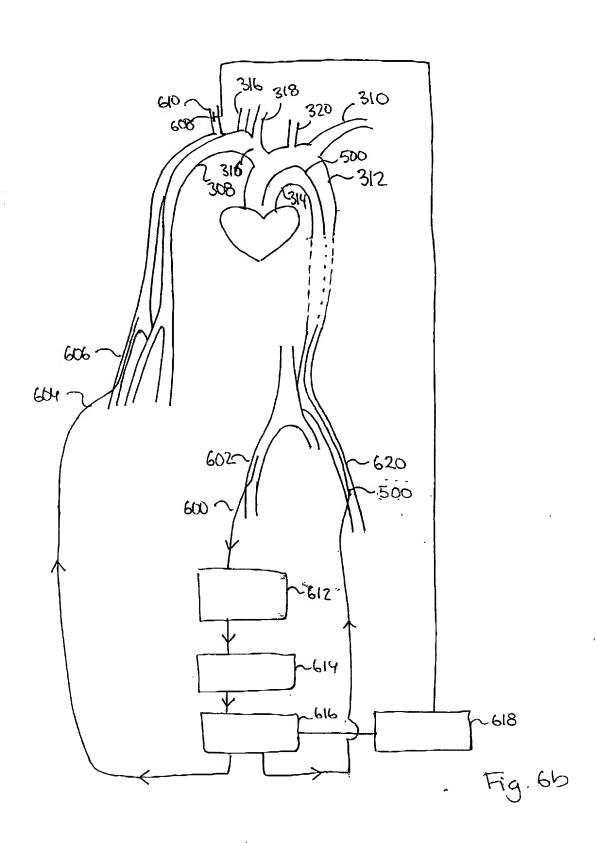
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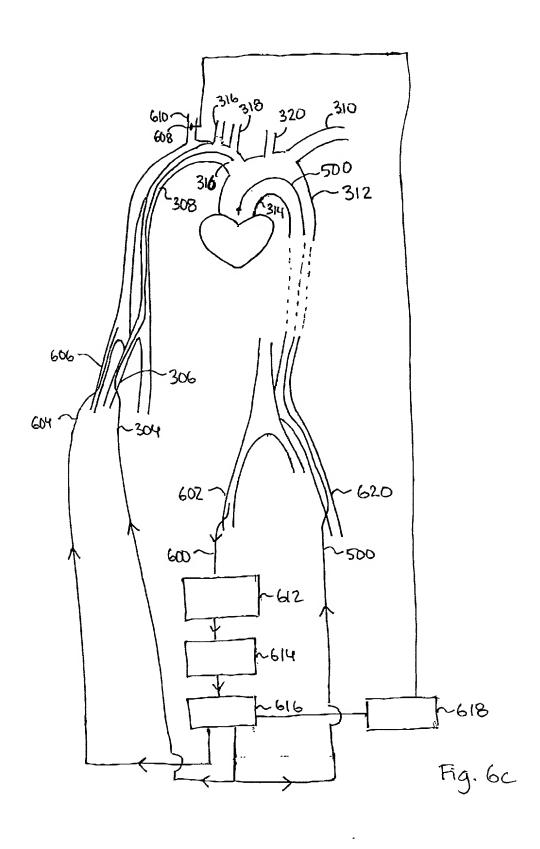
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Figs

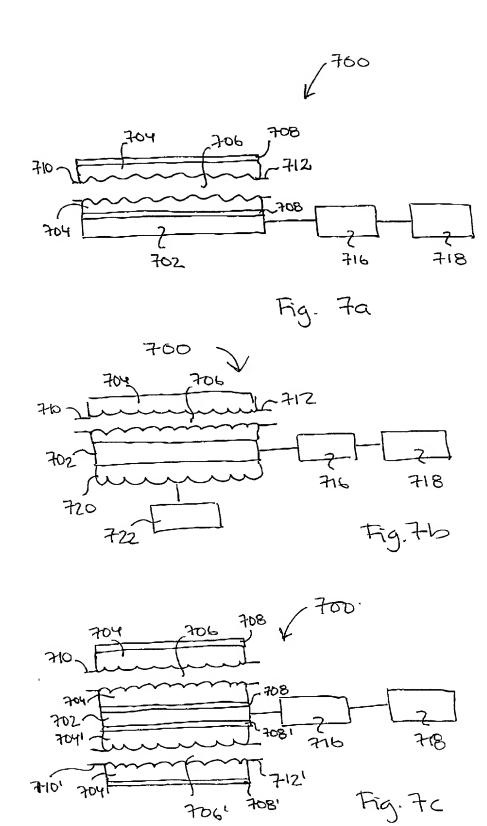






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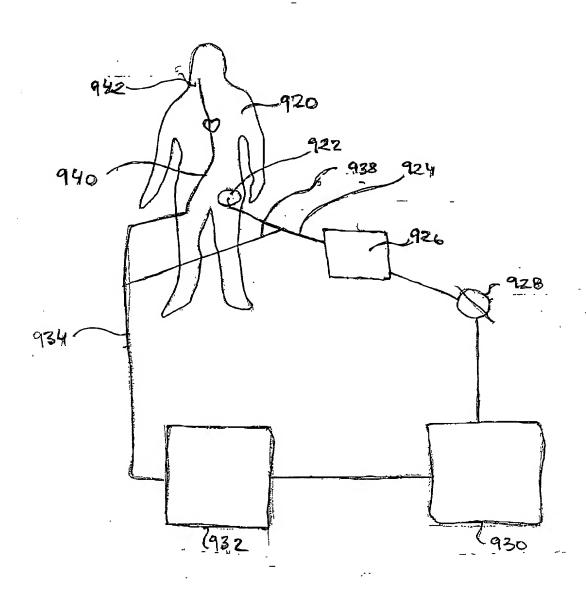


Fig. 8